# CENTER FOR DRUG EVALUATION AND RESEARCH APPROVAL PACKAGE FOR:

APPLICATION NUMBER
NDA 21-335/S-001

Correspondence

## Redacted 3

pages of trade

secret and/or

confidential

(b)(s)

commercial

information





Center for Drug Evaluation and Research, HFD-150 **Parklawn Building** 5600 Fishers Lane, Rockville, MD 20857



То:	Bob Miranda	From:	Ann Staten, Project	Manager	
Fax:	973-781-5217	Fax:	301-827-4590	:	
Phone:	973-781-2282	Phone	<b>301-594-5770</b>		
Pages:	3	Date:	January 8, 2002		
Re:	NDA 21-335 Gleevec				
W Urge	int 🗆 For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle	•
CONTA APPLIC notified	IN INFORMATION THAT ABLE LAW. If you are no that any review, disclosure, eived this document in error	IT IS PRIVILEGED, CONFI t the addressee, or a person dissemination or other action	IDENTIAL AND PROTE authorized to deliver the d in based on the content of t	OM IT IS ADDRESSED AND MAY ECTED FROM DISCLOSURE UNDER locument to the addressee, you are hereby the communication is not authorized. If you it to us at the above address by mail.	,
Dear Bo	ob.				

Please refer to your sNDA 21-335/S-001. Gleevec for patients with GIST.

The indication proposed in your sNDA is being considered for accelerated approval. Approval of applications under the accelerated approval regulations, 21 CFR314.510, require further adequate and well-controlled studies to verify and describe clinical benefit. You need to make the following accelerated approval commitments before we can take an action on this application.

- A. Commitments required for accelerated approval of Gleevec<sup>TM</sup> for patients with GIST:
  - 1. Complete follow-up of sNDA trial B2222 and submit mature data regarding duration of response and survival. Suggested timelines are as follows: last quarter of 2002 for response and response duration, and at 50% and 70% of events for survival analyses.
  - 2. An updated report of the central pathology review for sNDA trial B2222 should be submitted when review of the 13 pending cases is complete.
  - 3. Submit data from the two ongoing multicenter trials of imatinib that are testing 400 mg/day versus 800 mg/day in patients with GIST (EORTC and NCI sponsored trials). Response rate, duration of response, safety and survival data should be submitted when it becomes available.

NDA 21-335/S-001 January 8, 2002

 Submit the final study report for the EORTC phase 1 study of imatinib in patients with GIST and other soft-tissue sarcomas when it is available.

- 5. Assure availability of a validated test kit for detection of CD117 tumor expression by immunohistochemistry.
- Provide a plan for investigating the incidence and etiology of Gl/turnor hemorrhage associated with imatinib therapy.
- 7. Investigate and submit data regarding:
  - a) correlation of c-kit tumor mutation status with outcome
  - b) tumor c-kit phosphorylation status at baseline and post-exposure to Gleevec<sup>TM</sup>
  - c) correlation between serum VEGF levels and tumor response
- B. We also request that you agree to the following as a regular phase 4 commitment which is not a condition of accelerated approval:
  - Submit the PK/PD data from the comparison of 400 mg/day versus 800 mg/day in GIST patients in the two
    ongoing multicenter trials of imatinib (EORTC and NCI sponsored trials)
- C. We remind you of your prior phase 4 commitments:

Prior commitments required for accelerated approval Gleevec<sup>TM</sup> for CML patients:

- 1. To conduct and submit the final study report for Protocol 106 entitled "A phase III study of STI571 versus Interferon-α (IFN-α) combined with Cytarabine (Ara-C) in patients with newty diagnosed previously untreated Philadelphia chromosome positive (Ph+) chronic myelogenous leukemia in chronic phase (CML-CP)" with Time to Progression (TTP) as the primary surrogate endpoint. TTP is defined as any of the following: loss of complete hematologic response (CHR), loss of cytogenetic response, inability to maintain peripheral blood counts, increasing organomegaly, accelerated phase CML, blast crisis, or death from CML. Protocol 106 interim analysis (one-year hematologic response and QoL) is planned for first quarter, 2002 and the final analysis is expected in the fourth quarter, 2005.
- 2. To provide interval follow-up information on studies 102, 109 and 110. The safety and efficacy update will be provided in July, 2001, with a final analysis report expected in the third quarter, 2001.

Prior commitments which are not a condition of accelerated approval:

- To conduct and submit the final study report for the pediatric study, Protocol 103 entitled "A Phase I Study in Children with Refractory/Relapsed Ph+ Leukemias". Protocol 103 is currently ongoing and being conducted by the cooperative group COG (Children's Oncology Group).
- 2. To conduct and submit the final study report for a phase 2 pediatric efficacy study in an appropriate pediatric population. This will be conducted by a pediatric cooperative group under the NCI.
- To conduct an appropriate study to assess hepatotoxic drug interactions (e.g., acetaminophen) and submit final reports.
- To conduct the appropriate study to assess the potential drug interaction between Gleevec and a substrate of CYP2D6 and to submit the final study report.
- To conduct a pharmacokinetics study with Gleevec in subjects or patients with liver impairment and submit the final study report.

NDA 21-335/S-001 January 8, 2002

6. To conduct an *in vitro* study to assess the plasma protein binding of the N-demethylated piperazine derivative of Gleevec and submit the final study report.

7. To evaluate the etiology and treatment of the fluid retention syndrome associated with imatinib treatment

Please call me with any questions.

Sincerely,

ann

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/s/

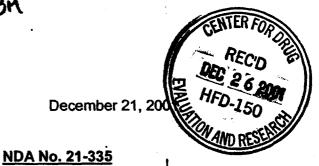
Ann Staten 1/8/02 04:40:26 PM CSO DUPLICATE

Novartis Pharmaceuticals Corporation 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300

NOA SUPP AMEND

5E1-001 BN



Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC TM (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: Request for Information** 

### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to an e-mail message dated December 19, 2001 from Ms. Ann Staten requesting information for the medical reviewer. At this time we are providing our response to this request.

The request for information in the December 19<sup>th</sup> e-mail stated:

"Please provide patient ID numbers for the 25 patients who had PET evaluations as described in Table 6 of the ISE."

### Response

The following are identification numbers for the 25 patients as requested:

### DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

### APPLICATION TO MARKET A NEW DRUG, BIOLOGIC,

Form Approved: OMB No. 0910-0338
Expiration Date: March 31, 2003
See OMB Statement on page 2.
FOR FDA USE ONLY

OR AN ANTIBIOTIC DR (Title 21, Code of Federal Reg	APPLICATION NUMBER				
APPLICATION INFORMATION					
NAME OF APPLICANT NOVARTIS PHARMACEUTICALS CORPORA	TION	12/21/0			
TELEPHONE NO. (Include Area Code) (973) 781-2282		(973) 7	FACSIMILE (FAX) Number (Include Area Code) (973) 781-5217		
APPLICANT ADDRESS (Number, Street, City, State, Country, 2IP Code and U.S. License number if previously issued):	e or Mail Code,		ED U.S. AGENT NAME & ADDRESS (Number, Street, City, State, lephone & FAX number) IF APPLICABLE		
59 Route 10	•	ŀ	<u>.</u>		
East Hanover, New Jersey 07936-1080			•		
PRODUCT DESCRIPTION					
NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OF					
ESTABLISHED NAME (e.g., Proper name, USP/USAN name) imatinib mesylate		Gleevec <sup>TM</sup>	ME (trade name) IF ANY		
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (If	any)		CODE NAME (If any) ST1571, CGP57148B		
DOSAGE FORM: Capsules	STRENGTHS: 50 and 100 mg	ROUT	TE OF ADMINISTRATION:		
(PROPOSED) INDICATION(S) FOR USE: Gastrointestinal stromal tumors (GIST)					
PLICATION INFORMATION					
APLICATION TYPE					
(check one) NEW DRUG APPLICA		314.94)			
	BIOLOGICS LICENSE		-		
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE			505 (b)(2)		
IF AN ANDA, OR 505(b)(2), IDENTIFY THE REFERENCE I Name of Drug		er of Approved Ap			
TYPE OF SUBMISSION (check one)	ORIGINAL APPLICA		ENDMENT TO A PENDING RESUBMISSION		
PRESUBMISSION ANNUAL REPORT LABELING SUPPLEMENT C	ESTABLISHMENT CHEMISTRY MANUFAC	DESCRIPTION SUPP	LEMENT EFFICACY SUPPLEMENT		
IF A SUBMISSION OF PARTIAL APPLICATION, PROVIDE	· · · · · · · · · · · · · · · · · · ·				
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATE	- <del></del>	CBE			
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATEGORY CBE CBE-30 Prior Approval (PA)  REASON FOR SUBMISSION  MINOR AMENDMENT TO PROVIDE 25 PATIENT ID NUMBERS					
PROPOSED MARKETING STATUS (check one)		SCRIPTION DUCT (Rx)	OVER THE COUNTER PRODUCT (OTC)		
NUMBER OF VOLUMES SUBMITTED 1	THIS APPLICATION		PAPER AND ELECTRONIC ELECTRONIC		
ESTABLISHMENT INFORMATION (Full establishment information should be provided in the body of the Application.)'  Provide locations of all manufacturing, packaging and control sites for drug substance and drug product (continuation sheets may be used if necessary). Include name, address, contact, telephone number, registration number (CFN), DMF number, and manufacturing steps and/or type of testing (e.g. Final dosage form, Stability testing) conducted at the site. Please indicate whether the site is ready for inspection or, if not, when it will be ready.					
coss References (list related License Applications, INDs, N	VDAs, PMAs, 510(k)s,	IDEs, BMFs, and D	MFs referenced in the current application)		

	tains the following items: (Check of	all that apply)					
1. Index		<del> </del>					
2. Labeling (	week one,	ft Labeling	· Final Printed Labeling				
3. Summary	21 CFR 314.50 (c))						
4. Chemistry	section						
A. Chemi	A. Chemistry, manufacturing, and controls information (e.g., 21 CFR 314.50 (d)(1); 21 CFR 601.2)						
	B. Samples (21 CFR 314.50 (e)(1); 21 CFR 601.2 (a)) (Submit only upon FDA's request)						
C. Metho	C. Methods validation package (e.g., 21 CFR 314.50 (e)(2)(i); 21 CFR 601.2)						
	5. Nonclinical pharmacology and toxicology section (e.g., 21 CFR 314.50 (d)(2); 21 CFR 601.2)						
6. Human ph	armacokinetics and bioavailability section	(e.g., 21 CFR 314.50 (c	i)(3); 21 CFR 601.2)				
7. Clinical M	icrobiology (e.g., 21 CFR 314.50 (d)(4))		•				
8. Clinical da	ta section (e.g., 21 CFR 314.50 (d)(5); 21	CFR 601.2)					
9. Safety upo	ate report (e.g., 21 CFR 314.50 (d)(5)(vi)	(b); 21 CFR 601.2)					
10. Statistical	section (e.g., 21 CFR 314.50 (d)(6); 21 CI	FR 601.2)		•			
11. Case repor	t tabulations (e.g., 21 CFR 314.50 (f)(1);	21 CFR 601.2)					
12. Case repor	t forms (e.g., 21 CFR 314.50 (f)(2); 21 CF	FR 601.2)		777			
13. Patent info	ormation on any patent which claims the di	rug (21 U.S.C 355 (b) or	r (c))				
14. A patent c	ertification with respect to any patent which	ch claims the drug (21 U	.S.C 355 (b)(2) or (j)(2)(A))				
1 .	ent description (21 CFR Part 600, if appli						
16. Debarmen	t certification (FD&C Act 306 (k)(1))			······································			
	certification (21 CFR 314.50 (k)(3))						
18. User Fee (	Cover Sheet (Form FDA 3397)						
19. Financial	information (21 CFR Part 54)						
20. OTHER (3	pecify)						
CERTIFICATION							
warnings, precautions, or a requested by FDA. If this a including, but not limited to 1. Good manufacturi 2. Biological establis 3. Labeling regulatio 4. In the case of a pre 5. Regulations on ms 6. Regulations on Re 7. Local, state and Fe If this application applies to product until the Drug Enfo The data and information in	ation with new safety information about the production is approved, I agree to opplication is approved, I agree to comply with a to the following:  In practice regulations in 21 CFR Parts 210, 21 hment standards in 21 CFR Part 600.  In in 21 CFR Parts 201, 606, 610, 660, and/or the scription drug or biological product, prescription drug or biological product, prescription thing changes in application in FD&C Act Sectiports in 21 CFR 314.80, 314.81, 600.80, and 60 detail environmental impact laws.  In a drug product that FDA has proposed for schorcement Administration makes a final scheduling this submission have been reviewed and, to the statement is a criminal offense, U.S. Code, title statement is a criminal offense, U.S. Code, title	submit safety update repor ill applicable laws and regulations or applicable regulations on drug advertising regulation 506A, 21 CFR 314.71, 00.81. eduling under the Controlleing decision. te best of my knowlegde are	ts as provided for by regulation or as lations that apply to approved applications, , Parts 606, and/or 820.  ions in 21 CFR Part 202. 314.72, 314.97, 314.99, and 601.12.  ed Substances Act, I agree not to market the				
SIGNATURE OF RESPON	ISIBLE OFFICIAL OR AGENT	TYPED NAME AND T	TILE	DATE			
TO at	8n1 - 1			12/21/01			
ADDRESS (Street City	Muchand 219 Code	Drug Regulatory A	<del></del>	<u> </u>			
ADDRESS (Street, City, State, and ZIP Code) 59 Route 10			Telephone Number (973) 781-2282				
	w Jersey 07936-1080		(3/3) /3/-2202				
instructions, searching exis information. Send commen this burden to:	for this collection of information is estimated ting data sources, gathering and maintaining this regarding this burden estimate or any other as	e data needed, and complet spect of this collection of in	ing and reviewing the collection of nformation, including suggestions for reduci	ing			
Department of Health and I Food and Drug Administra			ot conduct or sponsor, and a person is not ad to, a collection of information unless it				
CBER, HFM-99	·		ly valid OMB control number.				

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

FORM FD 4 2565 (4/90)

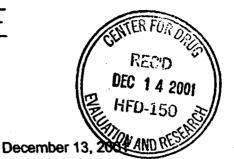
1401 Rockville Pike Rockville, MD 20852-1448

Novartis Pharmaceuticals Corporation 59 Route 10 East Hanover, NJ 07936-1080

() NOVARTIS

DUPLICATE

Tel 973-781 8300



NDA SUPPLACE OF

SE1-001 BH BB

NDA No. 21-335

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC ™ (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: Request for Information** 

Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to an e-mail message dated December 3, 2001 from Ms. Ann Staten requesting information for the clinical pharmacology reviewer. At this time we are providing our response to this request.

The request for information in the December 3<sup>rd</sup> e-mail stated:

"The clinical pharmacology reviewer cannot complete a review of the report PCS(J)2001/035.

Please submit the full final study report PCS(J) 2001/23 as well as the bioanalytical data reports PCS(J)2001/21 and PCS(J)2001/022, preferably in an electronic format."

The three reports involved studies conducted at our Japanese facility and were in Japanese. These have been translated and are attached.

This submission consists of one volume.

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

/vh ·

**Attachments** 

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

NOVARTIS

### DUPLICATE

59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300

RECEIVED DEC 1 1 2001 CDR/CDER

NDA SUPP AMEND SE1-001 REC'D

DEC 1 1 2001 HFD-150 December 10.

NDA No. 21-335

Richard Pazdur, MD Director Division of Oncology Drug Products/HFD-150 Food and Drug Administration Woodmont FDA Oncology Drug Group Attn: Document Control Room #20N 1451 Rockville Pike Rockville, Maryland 20852-1448

**GLEEVEC TM (imatinib mesylate)** Capsules

MINOR AMENDMENT TO A PENDING **APPLICATION (S-01)** 

OTHER: CML Safety and Efficacy Update

### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and/or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to two recent telephone requests (11/27/01 and 12/7/01) from Ms. Ann Staten for updated information concerning the CML studies 102, 109 and 110. This information is being provided at this time.

The enclosed safety and efficacy update report provides 9 months of additional data than was included in the original NDA submission for the CML indication and what is reflected in the current approved package insert (PI). The PI table of adverse experiences ≥10% for all three trials has been updated, as well as the response rate tables. Data on duration of response is also included.

We agree that updating the CML safety and efficacy information in the PI at this time is appropriate and provides important information to healthcare professionals. Our expectation is that during the revision of the Gleevec package insert for the new GIST indication, the CML response and adverse experience tables would be updated, and data on duration of response added.

### **Paper Section**

The paper portion of this submission consists of the Safety/Efficacy Update report dated December 8, 2001, and case report forms for all new deaths and dropouts due to adverse experiences.

### **Electronic Section**

As requested, the case report forms and case report tabulations (datasets) supporting the updated safety and efficacy report is contained on one CD-ROM that is located in Volume E1 of the paper submission.

The virus scanning software used for the submission is Network Associates VirusScan version 4.0.3a (formerly known as McAfee VirusScan).

This submission consists of 17 volumes (paper volumes 1-16 and electronic volume E1).

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

/vh

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

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commercial

information

Tel 973 781 8300

### **U** NOVARTIS

Post-It® Fax Note 7671	Date Pages > 2
* Ann Staten	From Robert Mirard
Co./Dept. FDA	Co. Novartis
Phone #	Phone #973-781-2282
Fax # 301-827-4590	Fax #

December 7, 2001

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC <sup>™</sup> (imatinib mesylate)
Capsules

NDA No. 21-335

MINOR AMENDMENT TO A PENDING APPLICATION (\$-01)

OTHER: Requests for Information

#### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and/or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to an e-mail request dated December 3, 2001 from Ms. Ann Staten concerning the Bioanalytical Data Report for CSTI571 0118. A response was provided by return e-mail on December 5, 2001. At this time we are providing a formal record of this communication.

#### **FDA Request:**

On p. 21 (under 6. Sample analysis) of the Bioanalytical Data Report (Appendix 5) for CSTI571 0118 the following statement is made:

"Samples with a concentration above the upper limit of the calibration range were re-analyzed after appropriate dilution. The value found in the re-analysis is reported".

#### Please provide the following:

- 1. identify which samples were re-analyzed with such dilution, and
- 2. provide us with the details of the dilution procedure and it's validation.

### Novartis Answer:

The standard report template approach was used for this study. We have confirmed that due to the sample concentrations being lower than the upper limit of calibration range of both STI and Simvastatin, no sample was diluted.

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

**Director** 

**Drug Regulatory Affairs** 

Mh

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

### DUPLICATE

Novartis Pharmaceuticals Corporation 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300



NDA SUPP AMEND

SE1-001 BH DEC - 5 2001

HAD-150

December 4, 2001

NDA No. 21-335

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC ™ (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

OTHER: Case Report Forms (7 patients on Study B2222)

#### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and/or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to a fax dated November 28, 2001 from Ms. Ann Staten requesting case report forms (CRFs) for seven additional patients. At this time we are providing the paper copies of the CRFs for the seven patients as requested.

Attached are copies of the CRFs for the following patients who were enrolled in the pivotal GIST study B2222:

501/007 502/025 502/026 502/110 502/125 503/018

503/036

This submission consists of one volume.

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

/vh

**Attachments** 

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

### DUPLICATE

59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300

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WEW CORPER

SNC to



December 4, 2001

NDA No. 21-335

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC ™ (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: Requests for Information** 

#### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to two e-mail messages dated November 13 & 16, 2001 and one fax dated November 16, 2001 from Ms. Ann Staten. At this time we are providing copies of our e-mail responses to each of these FDA messages to our NDA, as an official record of these communications.

A summary of the topic for each of these three communications is provided as follows:

November 13, 2001 e-mail: This was a FDA information request for the patient identifications from the historical group at DFCI that were ultimately enrolled on trial B2222. On November 20, 2001 Novartis responded via e-mail with a list of the 74 patient identifications as requested. (Please see copies attached)

November 16, 2001 e-mail: This was a FDA information request for clarification regarding the randomization vs. initiation dates. On November 20, 2001 Novartis responded via e-mail with the clarification and attached a spreadsheet with the patient ID, date of randomization and date of first dose. (Please see copies attached)

November 16, 2001 fax: This fax provided the FDA reviewer's comments regarding three patients whose response assessments were in disagreement. FDA believes these three confirmed partial responses reflected stable disease in accordance with the protocol. On November 21, 2001 Novartis responded via e-mail providing specific data for each of the three patients to help clarify why it was believed that the original response of confirmed partial response was still valid. (Please see copies attached).

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

/vh

**Attachments** 

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

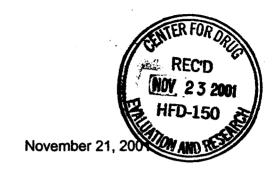
### **DUPLICATE**

Novartis Pharmaceuticals Corporation 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300

### **U** NOVARTIS

NDA SUPP AMEND SEI-001 BM



NDA No. 21-335

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike
Rockville, Maryland 20852-1448

GLEEVEC <sup>™</sup> (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: CT Scans & Responders** 

#### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to an e-mail dated October 25, 2001 from Ms. Ann Staten requesting clarification concerning the number of responders and the CT scans originally submitted to our IND on September 18, 2001 (Serial No 338). A clarification as requested was provided in our e-mail response of October 26, 2001.

At this time we are providing copies of the October 25<sup>th</sup> e-mail request from Ms. Staten and our October 26<sup>th</sup> e-mail response to our NDA as an official record of these communications.

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

**Director** 

**Drug Regulatory Affairs** 

/vh

**Attachments** 

### DUPLICATE

**U** NOVARTIS

**Novartis Pharmaceuticals Corporation** 

Drug Regulatory Affairs 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 7500 Fax 973 781 6325

NDA SUPP AMEND SEI-001

NDA No. 21-335

A N. 04 00#

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group

Woodmont FDA Oncology Drug Group Attn: Document Control Room #20N 1451 Rockville Pike

Rockville, Maryland 20852-1448

GLEEVEC ™ (imatinib mesylate)
Capsules

November 7, 20

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: CT Scans** 

### Dear Dr. Pazdur:

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to our Gleevec IND correspondence dated September 21, 2001 (Serial No. 338), which provided CT scans for all responders. At this time we are providing additional CT scans as requested by fax from Ms. Ann Staten on November 1, 2001.

The following additional scans are provided for the patients and dates requested in the November 1st fax:

<u>Dates</u>
11JAN01 and 05MAR01
04JAN01 and 05MAR01
08SEP00, 09OCT00 and 14DEC00
04DEC00 and 29JAN01
29JAN01 and 07MAR01
13FEB01 and 13MAR01

Only one copy of the CT scans is being submitted as previously agreed. We ask that when you are completed with your review to please return these to us. This submission consists of one volume.

Drug Regulatory Affairs
59 Route 10

East Hanover, NJ 07936-1080

### **U** NOVARTIS

Tel 973 781 7500 Fax 973 781 6325

If you have any questions or comments regarding this submission, please contact me at (973) 781-2282.

2

Sincerely,

Robert A. Miranda

**Director** 

**Drug Regulatory Affairs** 

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Attachments (CT Scans=one set only)

### DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

### APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN ANTIBIOTIC DRUG FOR HUMAN USE

(Title 21, Code of Federal Regulations, Parts 314 & 601)

Form Approved: OMB No. 0910-0338
Expiration Date: March 31, 2003
See OMB Statement on page 2.
FOR FDA USE ONLY

APPLICATION NUMBER

PLICATION INFORMATION					
NAME OF APPLICANT			DATE OF SUBMISSION		
NOVARTIS PHARMACEUTICALS CORPORATION			11/7/01		
TELEPHONE NO. (Include Area Code)			FACSIMILE (FAX) Number (Include Area Code)		
(973) 781-2282			(973) 781	1-6325	
APPLICANT ADDRESS (Number, Street, City, State, Country, ZIP Code	or Mail Code,			U.S. AGENT NAME & ADDRESS (Number, Street, C	ity, State,
and U.S. License number if previously issued):			ZIP Code, telep	shone & FAX number) IF APPLICABLE	
59 Route 10			1		
			1		
East Hanover, New Jersey 07936-1080					
				•	
PRODUCT DESCRIPTION					
NEW DRUG OR ANTIBIOTIC APPLICATION NUMBER, OR	BIOLOGICS LIC	CENSE APP	LICATION NU	MBER (If previously issued) 21-335	
ESTABLISHED NAME (e.g., Proper name, USP/USAN name)				IE (trade name) IF ANY	
imatinib mesylate		Gleev	ecTM		
CHEMICAL/BIOCHEMICAL/BLOOD PRODUCT NAME (If a	my)			CODE NAME (If any)	
				ST1571, CGP57148B	
DOSAGE FORM:	STRENGTHS:		1	OF ADMINISTRATION:	
Capsules (PROPOSED) INDICATION(S) FOR USE:	50 and 100 mg	<del>,</del>	Oral		<del></del> -
Gastrointestinal stromal tumors (GIST)					
(322)					
A BRITISA STONE IN THE PROPERTY OF THE PROPERT					
APPLICATION INFORMATION  APPLICATION TYPE	<del></del>				
**:ck one) NEW DRUG APPLICA	TION (21 CFR 31	4.50)	ARREVI	IATED NEW DRUG APPLICATION (ANDA, 2	1 CFR
, and the second	11011 (21 C1 K 31	14.50)	314.94)	ATED NEW DROG ATTEICATION (ANDA, 2	CIK
	OLOGICS LICE	NSE APPLIC	CATION (21 CF	R Part 601)	*.
IF AN NDA, IDENTIFY THE APPROPRIATE TYPE	×	505 (b)(1)	□ 5	05 (b)(2)	
IF AN ANDA, OR 505(b)(2), IDENTIFY THE REFERENCE L					
Name of Drug			proved Appli		
TYPE OF SUBMISSION (check one)	ORIGINAL APP	LICATION			BMISSION
PRESUBMISSION ANNUAL REPORT	] ESTABLISHM	ENT DESCR	APPI.W IPTION SUPPLE	CATION MENT EFFICACY SUPPLEM	ENT
\ <sup>-</sup>	IEMISTRY MANU	EACTI ID INC	AND CONTINUE	. —_	
LADISCING GOFF ELMENT	EMISTRI MANO	FACTURING	AND CONTROL	3 SUFFEEMENT OTHER	
IF A SUBMISSION OF PARTIAL APPLICATION, PROVIDE	LETTER DATE	OF AGREE	MENT TO PAR	TIAL SUBMISSION:	
IE A CUIDDI EN JENET LIDEN PRIENT STUD A PRO ORDINATE O ASSE	0001		СВЕ	☐ CBE-30 ☐ Prior Approval (PA	
IF A SUPPLEMENT, IDENTIFY THE APPROPRIATE CATE REASON FOR SUBMISSION	GORY		LICBE	CBE-30 Prior Approval (PA	)
MINOR AMENDMENT TO S-01 TO PROVIDE CT SCANS					
	- KA -				
PROPOSED MARKETING STATUS (check one)		RESCRIPTI RODUCT (1		OVER THE COUNTER PRO	DUCT
NUMBER OF VOLUMES SUBMITTED 1	THIS APPLICAT	ION IS	PAPER	PAPER AND ELECTRONIC ELEC	TRONIC
ESTABLISHMENT INFORMATION (Fall establishment in	nformation shoul	d be provid	ed in the body	of the Application.)`	
Provide locations of all manufacturing, packaging and control sites for	or drug substance a	nd drug produ	act (continuation	sheets may be used if necessary). Include name, addi	ess,
contact, telephone number, registration number (CFN), DMF number Please indicate whether the site is ready for inspection or, if not, who	r, and manufacturir on it will be reach:	ng steps and/o	r type of testing	(e.g. Final dosage form, Stability testing) conducted a	it the site.
THE STATE OF	ALIC WILL OC TOBOY.				
<u> </u>	÷			_	
Cross References (list related License Applications, INDs, N	DA. BMA. 5104	hie IDE- "	MF I NAME	To reference die the surrout and the state of	
	DAS, FIVIAS, DIV	njs, ides, E	evirs, and UM	rs reserenced in the current application)	
				•	

This application contains the following items: (Check all that apply)							
1. Index	Draft	t Labeling	Final Printed Labeling				
2. Labeling (check one)		. Date in B					
	3. Summary (21 CFR 314.50 (c))						
	4. Chemistry section						
	cturing, and controls informati						
B. Samples (21 CFR 3	14.50 (e)(1); 21 CFR 601.2 (a	)) (Submit only upon F	DA's request)	<del></del>			
C. Methods validation	C. Methods validation package (e.g., 21 CFR 314.50 (e)(2)(i); 21 CFR 601.2)						
5. Nonclinical pharmacol	ogy and toxicology section (e.s	g., 21 CFR 314.50 (d)(2	2); 21 CFR 601.2)				
6. Human pharmacokinet	ics and bioavailability section (	(e.g., 21 CFR 314.50 (d	)(3); 21 CFR 601.2)	<del></del>			
7. Clinical Microbiology	(e.g., 21 CFR 314.50 (d)(4))						
8. Clinical data section (e	.g., 21 CFR 314.50 (d)(5); 21 (	CFR 601.2)					
9. Safety update report (e	.g., 21 CFR 314.50 (d)(5)(vi)(t	o); 21 CFR 601.2)	•				
	21 CFR 314.50 (d)(6); 21 CFI						
	(e.g., 21 CFR 314.50 (f)(1); 2						
	, 21 CFR 314.50 (f)(2); 21 CFI						
	any patent which claims the dru		· (c))				
	14. A patent certification with respect to any patent which claims the drug (21 U.S.C 355 (b)(2) or (j)(2)(A))  15. Establishment description (21 CFR Part 600, if applicable)						
	16. Debarment certification (FD&C Act 306 (k)(1))						
17. Field copy certification (21 CFR 314.50 (k)(3))							
	18. User Fee Cover Sheet (Form FDA 3397)						
	19. Financial Information (21 CFR Part 54)						
20. OTHER (Specify)							
CERTIFICATION							
I agree to update this application with nev	v safety information about the proc	juct that may reasonably a	ffect the statement of contraindications.				
warnings, precautions, or adverse reaction	ns in the draft labeling. I agree to s	ubmit safety update report	s as provided for by regulation or as				
including, but not limited to the following		applicable laws and regu	lations that apply to approved applications,				
<ol> <li>Good manufacturing practice reg</li> </ol>	rulations in 21 CFR Parts 210, 211	or applicable regulations,	Parts 606, and/or 820.				
<ol> <li>Biological establishment standards in 21 CFR Part 600.</li> <li>Labeling regulations in 21 CFR Parts 201, 606, 610, 660, and/or 809.</li> </ol>							
4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR Part 202.							
5. Regulations on making changes in application in FD&C Act Section 506A, 21 CFR 314.71, 314.72, 314.97, 314.99, and 601.12.							
6. Regulations on Reports in 21 CFR 314.80, 314.81, 600.80, and 600.81. 7. Local, state and Federal environmental impact laws.							
If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act, I agree not to market the							
product until the Drug Enforcement Administration makes a final scheduling decision.  The data and information in this submission have been reviewed and, to the best of my knowlegde are certified to be true and accurate.							
Warning: A willfully false statement is a criminal offense, U.S. Code, title 18, section 1001.							
SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT TYPED NAME AND TITLE DATE							
Robert A. Miranda, Director Drug Regulatory Affairs							
ADDRESS (St. 1)	recq	Drug Regulatory A	<del></del>	L			
ADDRESS (Street, City, State, and 2 59 Route 10	Ir Code)		Telephone Number				
59 Route 10 (973) 781-2282 East Hanover, New Jersey 07936-1080							
East Hanover, New Jersey 07936-1080							

Public reporting burden for this collection of information is estimated to average 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Department of Health and Human Services Food and Drug Administration CBER, HFM-99 1401 Rockville Pike Rockville, MD 20852-1448

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

### DUPLICATE

Novartis Pharmaceuticals Corporation Drug Regulatory Affairs 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 7500 Fax 973 781 6325

16.00 (1.00

October 23, 2001

NDA No. 21-335

OCT 2 4 2001 1-- D-150

Richard Pazdur, MD
Director
Division of Oncology Drug Products/HFD-150
Food and Drug Administration
Woodmont FDA Oncology Drug Group
Attn: Document Control Room #20N
1451 Rockville Pike

Rockville, Maryland 20852-1448

GLEEVEC ™ (imatinib mesylate)
Capsules

MINOR AMENDMENT TO A PENDING APPLICATION (S-01)

**OTHER: Electronic Reports** 

#### Dear Dr. Pazdùr:

1) NOVARTIS

Please refer to our Supplemental NDA 21-335 / S-01 for Gleevec<sup>TM</sup>, which provides a new indication in the treatment of unresectable and /or metastatic malignant gastrointestinal stromal tumors (GIST). Reference is also made to a telcon on October 18, 2001 with Ms. Ann Staten, in which she requested pdf files of certain sNDA documents. At this time we are providing these sNDA documents as requested and in accordance with the electronic submission guidelines.

The following documents are provided as pdf files and are contained on one CD-ROM attached (

- Pivotal Clinical Study Report B2222 (core report only)
- Integrated Summary of Efficacy
- Integrated Summary of Safety
- Integrated Summary of Benefits and Risks

The virus scanning software used for this electronic file submission is Network Associates VirusScan version 4.0.3a (formerly known as McAfee VirusScan).

This submission consists of one electronic volume.

If you have any questions or comments regarding this NDA, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

**Attachment** 

Desk Copy (coverletter only) via fax: Ann Staten (HFD-150 at 301/827-4590)

### ORIGINAL

**Novartis Pharmaceuticals Corporation** 

59 Route 10

East Hanover, NJ 07936-1080

Tel 973 781 8300

OCT 22200 HFD-150

RTIS

NDA SUPP AMEND SE1-001 BH

October 19, 2001

NDA No. 21-335

GLEEVEC TM (imatinib mesylate)

**Capsules** 

SUPPLEMENT 01

**GENERAL CORRESPONDENCE: DSI Information (Preliminary)** 

Pike

to our Supplemental NDA 21-335 for Gleevec<sup>TM</sup>, which provides a new indication ent of unresectable and /or metastatic malignant gastrointestinal stromal tumors pence is also made to a fax from Ms. Ann Staten with a listing of information to be the Division of Scientific Investigation (DSI) at the time of sNDA submission. At eare providing the preliminary information for DSI.

ing information is provided as requested:

elogy Drug Products/HFD-150

Administration

vland 20852-1448

A Oncology Drug Group Control Room #20N

335 was approved on May 10, 2001 for the treatment of patients with chronic Leukemia (CML) in blast crisis, accelerated phase, or in chronic phase after failure deron-alpha therapy. A supplemental NDA (S-01) was submitted on October 15, provide for a new indication in the treatment of GIST. A request for priority review signitized with this application. The expected user fee goal date is April 16, 2002. n designation is also pending FDA review.

ec is a small molecule inhibitor of Kit receptor tyrosine kinase activity, as well as the tyrosine kinase activity of the platelet-derived growth factor (PDGF) receptor and imeric Bcr-Abl fusion protein found in chronic myeloid leukemia (CML).

ppy of Volume 1 of the sNDA is attached.

his sNDA consists of one pivotal clinical trial entitled, "Open, Randomized, Phase II tudy of STI571 in Patients with Unresectable or Metastatic Malignant Sastrointestinal Stromal Tumors Expressing c-kit" (Protocol No. CSTI571B2222 or abbreviated as Protocol B2222). A copy of this protocol with all amendments, unsigned consent form and a blank CRF are attached.

ption of the primary efficacy endpoint and a table by study site with the various requested (e.g. # subjects, # reportable AEs, etc.) are provided in the attached data document.

Contact:

Robert A. Miranda Drug Regulatory Affairs 973/781-2282

wartis conducted and is responsible for all monitoring activities under GCPs.

ubmission consists of two volumes.

have any questions or comments regarding this matter, please contact me at 781-2282.

erely,

ert A. Miranda

ector

Regulatory Affairs

M/vh closures

sk Copies: Khin Maung U, MD; FDA/HFD-47

Ann Staten FDA/HFD-150 (Letter only via fax at 301/827-4590)

ORIGINAL

Novartis Pharmaceuticals Corporation 59 Route 10 East Hanover, NJ 07936-1080

Tel 973 781 8300

NOVARTIS

NDA NO.21-335 REF NO. 001 NDA SUPPL FOR SE1-00

REC'D

OCT 1 7 2001

HFD-150

RECEIVED

October 15, 2000 CT 1 6 2001

CDR/CDER

NDA No. 21-335 / S-01

Food and Drug Administration Center for Drug Evaluation and Research Central Document Room 12229 Wilkins Avenue Rockville, MD 20852-1833

GLEEVEC ™ (imatinib mesylate)
Capsules

EFFICACY SUPPLEMENT - CHANGES REQUIRING PRIOR APPROVAL

**NEW INDICATION: GIST** 

Dear Sir/Madam:

Reference is made to our NDA 21-335 for Gleevec<sup>TM</sup> (imatinib mesylate, formerly STI571 and CGP57148B) Capsules for the treatment of patients with chronic myeloid leukemia (CML) in blast crisis, accelerated phase, or in chronic phase after failure of interferon-alpha therapy. At this time Novartis Pharmaceuticals Corporation submits a supplemental New Drug Application (sNDA) for the use of Gleevec in a new indication for the treatment of patients with unresectable and/or metastatic malignant gastrointestinal stromal tumors (GIST).

As you know Gleevec is a small molecule inhibitor of the Bcr-Abl tryosine kinase, the constitutive abnormal tyrosine kinase created by the Philadelphia chromosome abnormality in CML. Gleevec is also an inhibitor of the receptor tyrosine kinases associated with the platelet-derived growth factor receptor (PDGF-R) and Kit, the product of the proto-oncogene c-kit. There is strong evidence that the Kit receptor, mutated and constitutively activated in a majority of GIST, plays a role in the growth of these tumors, providing the rationale for testing Gleevec therapy in these patients.

This sNDA consists of the results of a single phase 2, open-label, two-arm randomized, multinational study (B2222) conducted in 147 patients with unresectable or metastatic malignant GIST. Results of this study indicate unprecedented efficacy with relatively few serious safety concerns. The overall response rate in the 147 patients evaluated, based on confirmed PR at the time of the data cut-off is 40%. However, as will be described in a subsequent report (120-Day update), a significantly higher rate of responses are achievable with this therapy. Contrasted with the available historical data that shows there is no effective standard therapy, there is clearly an overwhelming benefit relative to the risks of therapy with Gleevec.

This sNDA has been prepared in a manner that is consistent with existing regulations relevant guidelines and understandings that were reached at our EOP2 and pre-sNDA meetings. A

copy of the relevant correspondence related to these meetings is located in Volume 1 of the sNDA.

The Gleevec formulation is the same as previously approved for CML. The dose and schedule are similar. Therefore, there is no new preclinical or technical information in this sNDA. The CMC section is limited to a categorical exclusion for an environmental assessment in accordance with 21 CFR Part 25.31(b). For these reasons, the PAI requirements are not applicable and no certified copy of Section 3 is being provided to our district office.

#### **Electronic Sections**

As proposed in our pre-sNDA meeting of July 17, 2001, this submission includes the following sNDA components in electronic form only, and is contained on one CD-ROM that is located in Volume 2 of the paper submission:

Item 2: Labeling

Item 11: Case Report Tabulations

Item 12: Case Report Forms

The overall size of the electronic file contained in Volume 2 is approximately 162.9 MB. The virus scanning software used for the submission is Network Associates VirusScan version 4.0.3a (formerly known as McAfee VirusScan).

### Request for Priority Review

Gleevec has demonstrated unprecedented efficacy in a serious and life-threatening disease where there is no effective standard therapy.

We believe that this application qualifies for priority review according to CDER's MAPP 6020.3 in that Gleevec offers a significant improvement in the treatment of GIST, a serious and life-threatening condition, compared to available therapies as demonstrated in comparison to historical controls.

#### **Pediatric Waiver**

A request for a waiver from pediatric labeling for Gleevec in GIST was submitted as part of the briefing document for the pre-sNDA Meeting on July 17, 2001 and was granted at that meeting. The basis of this waiver is that GIST is rare in children.

In addition, Orphan designation in GIST was requested on August 9, 2001 in accordance with 21CFR316. While formal written confirmation of orphan status has not been received, it is expected very soon. This application would thereby also qualify for pediatric waiver under the orphan designation.

#### **User Fee**

The FDA User Fee for this application (user fee ID 4219) was submitted on October 12, 2001. As you know, user fees are excluded for orphan designated drugs/indications. The user fee for this clinical supplement has been paid in advance of receiving such written confirmation of the orphan designation as discussed above, in order not to delay this application. Since orphan designation is expected, we hereby request a refund at the time of orphan designation as provided under the user fee regulations.

#### 90-Day Conference

We would like to request a 90-day post-submission conference (or earlier, if deemed appropriate) as provided for by 21 CFR 314.102. We would like to have the opportunity to meet with you and be advised of the general status of your review of this application and to discuss the review classification and potential for an advisory committee hearing.

Novartis Pharmaceuticals Corporation considers the information contained within this application to be confidential, and its contents are not to be disclosed without express written consent.

If you have any questions or comments regarding this sNDA, please contact me at (973) 781-2282.

Sincerely,

Robert A. Miranda

Director

**Drug Regulatory Affairs** 

Attachments: Form FDA 356h

Form FDA 3397 Volumes 1-14

14 Desk Copies of Volume 1: Ann Staten (HFD-150)

Coverletter: Ann Staten (HFD-150) via fax at 301/827-4590



Food and Drug Administration Rockville MD 20857

NDA 21-335/S-001

#### PRIOR APPROVAL SUPPLEMENT

Novartis Pharmaceuticals Corporation Route 10 Hanover, New Jersey 07936-1080

Attention: Robert A. Miranda, Associate Director

**Drug Regulatory Affairs** 

Dear Mr. Miranda:

We have received your supplemental drug application submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for the following:

Name of Drug Product: Gleevec (imatinib mesylate) 50 and 100 mg capsules.

NDA Number: 21-335

Supplement Number: S-001

Review Priority Classification: Priority (P)

Date of Supplement: October 15, 2001

Date of Receipt: October 16, 2001

This supplement proposes the following change(s): Gleevec for the treatment of patients with unresectable and/or metastatic malignant gastrointestinal stromal tumors (GIST)

Unless we notify you within 60 days of our receipt date that the application is not sufficiently complete to permit a substantive review, this application will be filed under section 505(b) of the Act on December 15, 2001 in accordance with 21 CFR 314.101(a). If the application is filed, the user fee goal date will be April 16, 2001.

Under 21 CFR 314.102(c) of the new drug regulations, you may request an informal conference with this Division (to be held approximately 90 days from the above receipt date) for a brief report on the status of the review but not on the application's ultimate approvability. Alternatively, you may choose to receive such a report by telephone.

Please cite the application number listed above at the top of the first page of any communications concerning this application. All communications concerning this supplemental application should be addressed as follows:

Food and Drug Administration Rockville MD 20857

### U.S. Postal Service:

Rockville, Maryland 20857

Food and Drug Administration
Center for Drug Evaluation and Research
Division of Oncology Drug Products, HFD150
Attention: Division Document Room 3036
5600 Fishers Lane

### Courier/Overnight Mail:

Food and Drug Administration
Center for Drug Evaluation and Research
Division of Oncology Drug Products, HFD150
Attention: Division Document Room 3036
1451 Rockville Pike
Rockville, Maryland 20852-1420

If you have any questions, call Ann Staten, Project Manager, at (301) 594-5770.

Sincerely,

{See appende Atronic signature page}

Dotti Pease Chief, Project Management Staff Division of Oncology Drug Products Office of Drug Evaluation I Center for Drug Evaluation and Research This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Ann Staten 11/7/01 04:34:56 PM Signed for Dotti Pease